

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/594,449
Source: IFWP
Date Processed by STIC: 10/06/2006

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/594,449

DATE: 10/06/2006
TIME: 10:51:10

Input Set : A:\060734.txt
Output Set: N:\CRF4\10062006\J594449.raw

2 <110> APPLICANT: Zeon Corp.
 W--> 3 <120> TITLE OF INVENTION: Recombinant Herpes Virus and Use Thereof
 W--> 4 <130> FILE REFERENCE: P852
 C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/594,449
 C--> 5 <141> CURRENT FILING DATE: 2006-09-26
 W--> 5 <160> NUMBER OF SEQ ID: 27
 6 <170> SOFTWARE: PatentIn version 3.2
 W--> 7 <210> SEQ ID NO: 1
 8 <211> LENGTH: 469
 9 <212> TYPE: PRT
 10 <213> ORGANISM: Artificial
 W--> 11 <220> FEATURE:
 12 <223> OTHER INFORMATION: Infectious laryngotracheitis virus and artificial ORF
 W--> 13 <400> SEQUENCE: 1
 14 Met Ala Ser Leu Lys Met Leu Ile Cys Val Ala Ile Leu Ile
 15 1 5 10 15
 16 Pro Ser Thr Leu Ser Gln Asp Ser His Gly Ile Ala Gly Ile Ile Asp
 17 20 25 30
 18 Pro Arg Asp Thr Ala Ser Met Asp Val Gly Lys Ile Ser Phe Ser Glu
 19 35 40 45
 20 Ala Ile Gly Ser Gly Ala Pro Lys Glu Pro Gln Ile Arg Asn Arg Ile
 21 50 55 60
 22 Phe Ala Cys Ser Ser Pro Thr Gly Ala Ser Val Ala Arg Leu Ala Gln
 23 65 70 75 80
 24 Pro Arg His Cys His Arg His Ala Asp Ser Thr Asn Met Thr Glu Gly
 25 85 90 95
 26 Ile Ala Val Val Phe Lys Gln Asn Ile Ala Pro Tyr Val Phe Asn Val
 27 100 105 110
 28 Thr Leu Tyr Tyr Lys His Ile Thr Thr Val Thr Thr Trp Ala Leu Phe
 29 115 120 125
 30 Ser Arg Pro Gln Ile Thr Asn Glu Tyr Val Thr Arg Val Pro Ile Asp
 31 130 135 140
 32 Tyr His Glu Ile Val Arg Ile Asp Arg Ser Gly Glu Cys Ser Ser Lys
 33 145 150 155 160
 34 Ala Thr Tyr His Lys Asn Phe Met Phe Phe Glu Ala Tyr Asp Asn Asp
 35 165 170 175
 36 Glu Arg Glu Lys Lys Leu Pro Leu Val Pro Ser Leu Leu Arg Ser Thr
 37 180 185 190
 38 Val Ser Lys Ala Phe His Thr Thr Asn Phe Thr Lys Arg His Gln Thr
 39 195 200 205
 40 Leu Gly Tyr Arg Thr Ser Thr Ser Val Asp Cys Val Val Glu Tyr Leu
 41 210 215 220
 42 Gln Ala Arg Ser Val Tyr Pro Tyr Asp Tyr Phe Gly Met Ala Thr Gly

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43 225 230 235 240
 44 Asp Thr Val Glu Ile Ser Pro Phe Tyr Thr Lys Asn Thr Thr Gly Pro
 45 245 250 255
 46 Arg Arg His Ser Val Tyr Arg Asp Tyr Arg Phe Leu Glu Ile Ala Asn
 47 260 265 270
 48 Tyr Gln Val Arg Asp Leu Glu Thr Gly Gln Ile Arg Pro Pro Lys Lys
 49 275 280 285
 50 Arg Asn Phe Leu Thr Asp Glu Gln Phe Thr Ile Gly Trp Asp Ala Met
 51 290 295 300
 52 Glu Glu Lys Glu Ser Val Cys Thr Leu Ser Lys Trp Ile Glu Val Pro
 53 305 310 315 320
 54 Glu Ala Val Arg Val Ser Tyr Lys Asn Ser Tyr His Phe Ser Leu Lys
 55 325 330 335
 56 Asp Met Thr Met Thr Phe Ser Ser Gly Lys Gln Pro Phe Asn Ile Ser
 57 340 345 350
 58 Arg Leu His Leu Ala Glu Cys Val Pro Thr Ile Ala Ser Glu Ala Ile
 59 355 360 365
 60 Asp Gly Ile Phe Ala Arg Lys Tyr Ser Ser Thr His Val Arg Ser Gly
 61 370 375 380
 62 Asp Ile Glu Tyr Tyr Leu Gly Ser Gly Gly Phe Leu Ile Ala Phe Gln
 63 385 390 395 400
 64 Lys Leu Met Ser His Gly Leu Ala Glu Met Tyr Leu Glu Glu Ala Gln
 65 405 410 415
 66 Arg Gln Asn His Leu Pro Arg Gly Arg Glu Arg Arg Gln Gly Asp Leu
 67 420 425 430
 68 Tyr Lys Cys Gly Met Ala Asp Tyr Asp His Glu Gln Thr Val Arg Thr
 69 435 440 445
 70 Glu Gly Pro Glu Met Ser Leu Gly Thr Val Asn Arg Pro Ile Arg Pro
 71 450 455 460
 72 Ile Tyr Ser Ser His
 73 465
 74 <210> SEQ ID NO: 2
 75 <211> LENGTH: 429
 76 <212> TYPE: PRT
 77 <213> ORGANISM: Infectious laryngotracheitis virus
 W--> 78 <400> SEQUENCE: 2
 79 Met Ala Ser Leu Lys Met Leu Ile Cys Val Ala Ile Leu Ile
 80 1 5 10 15
 81 Pro Ser Thr Leu Ser Gln Asp Ser His Gly Ile Ala Gly Ile Ile Asp
 82 20 25 30
 83 Pro Arg Asp Thr Ala Ser Met Asp Val Gly Lys Ile Ser Phe Ser Glu
 84 35 40 45
 85 Ala Ile Gly Ser Gly Ala Pro Lys Glu Pro Gln Ile Arg Asn Arg Ile
 86 50 55 60
 87 Phe Ala Cys Ser Ser Pro Thr Gly Ala Ser Val Ala Arg Leu Ala Gln
 88 65 70 75 80
 89 Pro Arg His Cys His Arg His Ala Asp Ser Thr Asn Met Thr Glu Gly
 90 85 90 95
 91 Ile Ala Val Val Phe Lys Gln Asn Ile Ala Pro Tyr Val Phe Asn Val

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92	100	105	110
93	Thr Leu Tyr Tyr Lys His Ile Thr Thr Val Thr Trp Ala Leu Phe		
94	115	120	125
95	Ser Arg Pro Gln Ile Thr Asn Glu Tyr Val Thr Arg Val Pro Ile Asp		
96	130	135	140
97	Tyr His Glu Ile Val Arg Ile Asp Arg Ser Gly Glu Cys Ser Ser Lys		
98	145	150	155
99	Ala Thr Tyr His Lys Asn Phe Met Phe Phe Glu Ala Tyr Asp Asn Asp		
100	165	170	175
101	Glu Arg Glu Lys Lys Leu Pro Leu Val Pro Ser Leu Leu Arg Ser Thr		
102	180	185	190
103	Val Ser Lys Ala Phe His Thr Thr Asn Phe Thr Lys Arg His Gln Thr		
104	195	200	205
105	Leu Gly Tyr Arg Thr Ser Thr Ser Val Asp Cys Val Val Glu Tyr Leu		
106	210	215	220
107	Gln Ala Arg Ser Val Tyr Pro Tyr Asp Tyr Phe Gly Met Ala Thr Gly		
108	225	230	235
109	240		
110	Asp Thr Val Glu Ile Ser Pro Phe Tyr Thr Lys Asn Thr Thr Gly Pro		
111	245	250	255
112	Arg Arg His Ser Val Tyr Arg Asp Tyr Arg Phe Leu Glu Ile Ala Asn		
113	260	265	270
114	Tyr Gln Val Arg Asp Leu Glu Thr Gly Gln Ile Arg Pro Pro Lys Lys		
115	275	280	285
116	Arg Asn Phe Leu Thr Asp Glu Gln Phe Thr Ile Gly Trp Asp Ala Met		
117	290	295	300
118	Glu Glu Lys Glu Ser Val Cys Thr Leu Ser Lys Trp Ile Glu Val Pro		
119	305	310	315
120	320		
121	Glu Ala Val Arg Val Ser Tyr Lys Asn Ser Tyr His Phe Ser Leu Lys		
122	325	330	335
123	Asp Met Thr Met Thr Phe Ser Ser Gly Lys Gln Pro Phe Asn Ile Ser		
124	340	345	350
125	Arg Leu His Leu Ala Glu Cys Val Pro Thr Ile Ala Ser Glu Ala Ile		
126	355	360	365
127	Asp Gly Ile Phe Ala Arg Lys Tyr Ser Ser Thr His Val Arg Ser Gly		
128	370	375	380
129	Asp Ile Glu Tyr Tyr Leu Gly Ser Gly Phe Leu Ile Ala Phe Gln		
130	385	390	395
131	400		400
132	Lys Leu Met Ser His Gly Leu Ala Glu Met Tyr Leu Glu Glu Ala Gln		
133	405	410	415
134	Arg Gln Asn His Leu Pro Arg Gly Arg Glu Arg Arg Gln		
135	420	425	
136	<210> SEQ ID NO: 3		
137	<211> LENGTH: 1287		
138	<212> TYPE: DNA		
139	<213> ORGANISM: Infectious laryngotracheitis virus		
140	W--> <400> SEQUENCE: 3		
138	atggctagct tgaaaaatgct gatctgcgtg tgcgtggcaa tcctgatccc atctacccta	60	
139	tctcaagatt cacacggaat tgccggaata atagaccctc gtgatacagc cagcatggat	120	
140	gttggaaaaa tctctttctc cgaagccatt gggtcggggg caccgaaaga accccagatt	180	

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141	agaaaacagaa	ttttgcgtg	ctcatctcca	actggcgcca	gtgtgcgag	gctgcccag	240											
142	ccacgacatt	gtcaccgaca	tgccgattcg	actaacatga	ctgaaggaat	tgccgttagtc	300											
143	ttcaagcaaa	acattgcccc	gtacgtctt	aatgtgactc	tatactataa	acatataacc	360											
144	acagttacta	cgtggcatt	attctcaaga	ccccaaataa	caaatgagta	cgtgaccagg	420											
145	gttccaaatag	actatcatga	aattgtcagg	attgatcgat	cgggagaatg	ctcatccaaa	480											
146	gcaacgtatc	ataaaaattt	catgttttt	gaagcttag	acaatgatga	acgagaaaaaa	540											
147	aaattgcccc	tggttccatc	actgttaaga	tcaactgtct	ccaaggcggt	tcataacaact	600											
148	aactttacta	agcgacatca	aaccctggga	tacccaacgt	ctacatcggt	cgactgtgtt	660											
149	gtggaatatc	tacaggctag	atctgtatac	ccgtatgatt	actttggaaat	ggcgacaggt	720											
150	gatacagtag	aaatttctcc	ctttataacc	aaaaacacga	ccggaccaag	gcgtcacagt	780											
151	gtctacagag	actatagatt	tctcgaaatc	gcaaattatc	aagtcaagga	tttggaaacc	840											
152	ggacaaataa	gaccctctaa	aaaaagaaac	tttctaacag	atgaacaatt	cactataggc	900											
153	tgggatgcaa	tggaagaaaa	ggaatctgta	tgtactctca	gtaaatggat	tgaagtcccg	960											
154	gaagcagttc	gtgttcgt	caaaaaacagt	taccacttt	cacttaaaga	tatgactatg	1020											
155	acgttctcg	ccggaaaaca	accttttaac	atcagcagge	ttcatttggc	tgaatgcgtt	1080											
156	cctaccatag	ttcggaggc	catagatggc	atcttgcca	gaaagtatacg	ttcgactctat	1140											
157	gtccgttctg	gggacatcga	atactatctc	ggtagtgccg	gatttctgat	cgcatttcag	1200											
158	aaactcatga	gccatggctt	ggctgaaatg	tacctagaag	aggcacaaag	acaaaatcat	1260											
159	ctcccgagag	ggagagagcg	tcgccaa				1287											
160	<210>	SEQ ID NO:	4															
161	<211>	LENGTH:	40															
162	<212>	TYPE:	PRT															
163	<213>	ORGANISM:	Artificial															
W-->	164	<220>	FEATURE:															
	165	<223>	OTHER INFORMATION:	SV40 pA signal														
W-->	166	<400>	SEQUENCE:	4														
	167	Gly	Asp	Leu	Tyr	Lys	Cys	Gly	Met	Ala	Asp	Tyr	Asp	His	Glu	Gln	Thr	
	168	1				5					10					15		
	169	Val	Arg	Thr	Glu	Gly	Pro	Glu	Met	Ser	Leu	Gly	Thr	Val	Asn	Arg	Pro	
	170						20				25				30			
	171	Ile	Arg	Pro	Ile	Tyr	Ser	Ser	His									
	172				35			40										
	173	<210>	SEQ ID NO:	5														
	174	<211>	LENGTH:	120														
	175	<212>	TYPE:	DNA														
	176	<213>	ORGANISM:	Artificial														
W-->	177	<220>	FEATURE:															
	178	<223>	OTHER INFORMATION:	SV40 pA signal														
W-->	179	<400>	SEQUENCE:	5														
	180	ggcgacctct	acaaatgtgg	tatggctgat	tatgatcatg	aacagactgt	gaggactgag									60		
	181	gggcctgaaa	tgagccttgg	gactgtgaat	cggccaataa	ggcctattta	ctcatcgcat									120		
	182	<210>	SEQ ID NO:	6														
	183	<211>	LENGTH:	18														
	184	<212>	TYPE:	DNA														
	185	<213>	ORGANISM:	Artificial														
W-->	186	<220>	FEATURE:															
	187	<223>	OTHER INFORMATION:	Synthetic														
W-->	188	<400>	SEQUENCE:	6														
	189	tgaaaaacga	cggccagt													18		

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Input Set : A:\060734.txt

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190 <210> SEQ ID NO: 7
 191 <211> LENGTH: 29
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial
W--> 194 <220> FEATURE:
 195 <223> OTHER INFORMATION: Synthetic
W--> 196 <400> SEQUENCE: 7 29
 197 ttcggtaccg gttatttatta ttttttgac
 198 <210> SEQ ID NO: 8
 199 <211> LENGTH: 30
 200 <212> TYPE: DNA
 201 <213> ORGANISM: Artificial
W--> 202 <220> FEATURE:
 203 <223> OTHER INFORMATION: Synthetic
W--> 204 <400> SEQUENCE: 8 30
 205 gggctgcaga gttattaata gtaatcaatt
 206 <210> SEQ ID NO: 9
 207 <211> LENGTH: 27
 208 <212> TYPE: DNA
 209 <213> ORGANISM: Artificial
W--> 210 <220> FEATURE:
 211 <223> OTHER INFORMATION: Synthetic
W--> 212 <400> SEQUENCE: 9 27
 213 gcactcgat ccattgacat ggctagc
 214 <210> SEQ ID NO: 10
 215 <211> LENGTH: 30
 216 <212> TYPE: DNA
 217 <213> ORGANISM: Artificial
W--> 218 <220> FEATURE:
 219 <223> OTHER INFORMATION: Synthetic
W--> 220 <400> SEQUENCE: 10 30
 221 agatgccatc tatggcctcc gaagctatgg
 222 <210> SEQ ID NO: 11
 223 <211> LENGTH: 30
 224 <212> TYPE: DNA
 225 <213> ORGANISM: Artificial
W--> 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: Synthetic
W--> 228 <400> SEQUENCE: 11 30
 229 tggctgaatg cgttcttacc atagcttcgg
 230 <210> SEQ ID NO: 12
 231 <211> LENGTH: 29
 232 <212> TYPE: DNA
 233 <213> ORGANISM: Artificial
W--> 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: Synthetic
W--> 236 <400> SEQUENCE: 12 29
 237 cgggtacctt attcgcttcc gctttcttc
 238 <210> SEQ ID NO: 13

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/06/2006
PATENT APPLICATION: US/10/594,449 TIME: 10:51:11

Input Set : A:\060734.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,23,24,25,26,27

VERIFICATION SUMMARY

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Input Set : A:\060734.txt

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L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:5 M:283 W: Missing Blank Line separator, <160> field identifier
L:7 M:283 W: Missing Blank Line separator, <210> field identifier
L:11 M:283 W: Missing Blank Line separator, <220> field identifier
L:13 M:283 W: Missing Blank Line separator, <400> field identifier
L:78 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:283 W: Missing Blank Line separator, <400> field identifier
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
L:177 M:283 W: Missing Blank Line separator, <220> field identifier
L:179 M:283 W: Missing Blank Line separator, <400> field identifier
L:186 M:283 W: Missing Blank Line separator, <220> field identifier
L:188 M:283 W: Missing Blank Line separator, <400> field identifier
L:194 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier
L:204 M:283 W: Missing Blank Line separator, <400> field identifier
L:210 M:283 W: Missing Blank Line separator, <220> field identifier
L:212 M:283 W: Missing Blank Line separator, <400> field identifier
L:218 M:283 W: Missing Blank Line separator, <220> field identifier
L:220 M:283 W: Missing Blank Line separator, <400> field identifier
L:226 M:283 W: Missing Blank Line separator, <220> field identifier
L:228 M:283 W: Missing Blank Line separator, <400> field identifier
L:234 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:283 W: Missing Blank Line separator, <400> field identifier
L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:244 M:283 W: Missing Blank Line separator, <400> field identifier
L:250 M:283 W: Missing Blank Line separator, <220> field identifier
L:252 M:283 W: Missing Blank Line separator, <400> field identifier
L:258 M:283 W: Missing Blank Line separator, <220> field identifier
L:260 M:283 W: Missing Blank Line separator, <400> field identifier
L:266 M:283 W: Missing Blank Line separator, <220> field identifier
L:268 M:283 W: Missing Blank Line separator, <400> field identifier
L:274 M:283 W: Missing Blank Line separator, <220> field identifier
L:276 M:283 W: Missing Blank Line separator, <400> field identifier
L:282 M:283 W: Missing Blank Line separator, <220> field identifier
L:284 M:283 W: Missing Blank Line separator, <400> field identifier
L:290 M:283 W: Missing Blank Line separator, <220> field identifier
L:292 M:283 W: Missing Blank Line separator, <400> field identifier
L:298 M:283 W: Missing Blank Line separator, <220> field identifier
L:300 M:283 W: Missing Blank Line separator, <400> field identifier
L:306 M:283 W: Missing Blank Line separator, <220> field identifier
L:308 M:283 W: Missing Blank Line separator, <400> field identifier
L:314 M:283 W: Missing Blank Line separator, <400> field identifier
L:343 M:283 W: Missing Blank Line separator, <220> field identifier

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L:345 M:283 W: Missing Blank Line separator, <400> field identifier

L:351 M:283 W: Missing Blank Line separator, <220> field identifier

L:353 M:283 W: Missing Blank Line separator, <400> field identifier

L:359 M:283 W: Missing Blank Line separator, <220> field identifier